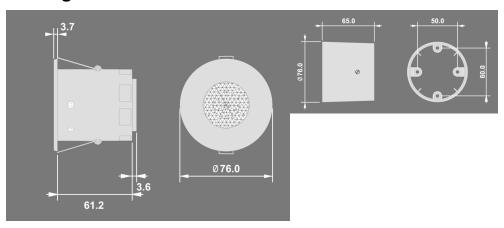
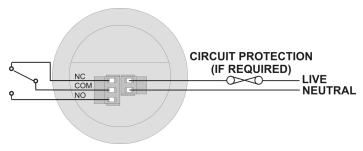
Product Guide



EBDSPIR-VFC

Ceiling Presence Detector





Overview

The EBDSPIR series of presence detector switches are designed to provide automatic control of lighting, heating or ventilation loads. They detect movement using a PIR sensor and turn the load on. When an area is no longer occupied the load will switch off after an adjustable time out period.

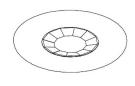
An optional adjustable internal light sensor provides additional energy saving in lighting applications. When an area is occupied lighting is only switched on when the level of natural light is below a preset level.

When the unit is first powered up the PIR sensor will always detect immediately regardless of whether the room is occupied.

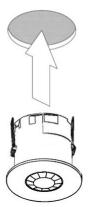
This unit has a mains voltage power supply and provides an isolated voltage free contact output.

FLUSH FIXING

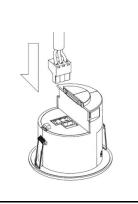
Warning - be careful bending springs when mounting unit.



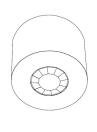
1 Hole Ø64mm



2



SURFACE FIXING

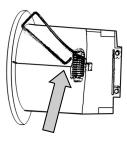


1

50mm or 60mm fixing centres



2

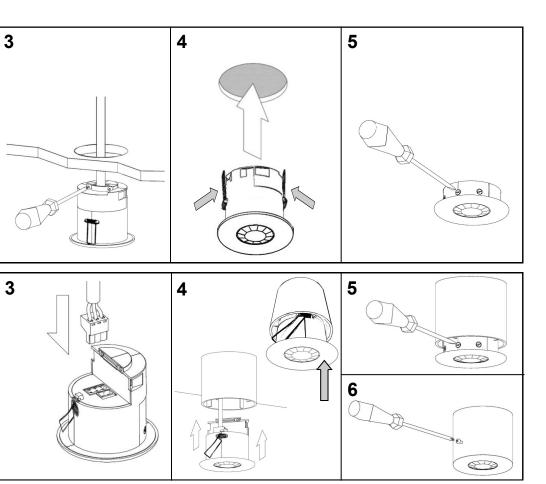


Pull out spring tab and rotate spring arm as shown

Installation

- The detector should be sited so that the occupants of the room fall
 inside the detection pattern shown overleaf, at a recommended height of
 2.8m on the ceiling. Note that the lower the sensor is installed the
 smaller the detection range will be, subject to the parameters shown on
 the diagram.
- Avoid direct sunlight entering the sensor.
- Do not site within 1m of forced air heating or ventilation.
- Do not site within 1m of any lighting.
- Do not fix to a vibrating surface.
- Wire the product using the connector using the diagram on the front page.
- Mount using one of the two options above.

- For lux enabled products, set th minimum.
- Power the unit up—the load sho
- Vacate the room or remain very (should take no more than 2 mir
- · Check that the load switches on
- To set the final LUX level wait u enough that lighting is required. wise (at minimum), very slowly t lights come on. Note that when lights will always come on with
- Set the time required.



ELUX level to maximum and the time to

uld come on immediately.

still and wait for the load to switch off utes).

when movement is detected.

ntil the level of natural daylight is just Starting with the LUX control fully clockurn the control anti-clockwise until the he LUX control is at maximum then the occupancy.

LOAD DOES NOT COME ON

Check to see if the live supply to the circuit is good. If the supply and wiring are good, for lux enabled versions, check the LUX level setting. Increase the LUX level setting to allow the controller to turn on at higher ambient natural light level.

If the detection range is smaller than expected, check the diagram above. Rotating the sensor slightly may improve the range.

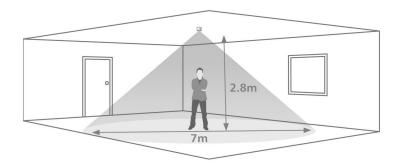
Fault Finding

LIGHTS DO NOT GO OFF

Ensure that the area is left unoccupied for longer than the selected timer setting.

Make sure that the sensor is not adjacent to circulating air, heaters or lamps.

Detection Pattern



Area of high sensitivity Area of lower sensitivity

Ceiling mounted

voltage free out-

Surface mounting

put contact

back box

presence detector

Part Numbers

EBDSPIR-VFC

DBB

Specification

LOAD Normally closed contact

2 Amp maximum Minimum load 100mA

Normally open contact

6 Amp fluorescent lighting and resistive

3 Amp compact fluorescent lighting

3 Amp low energy lighting

3 Amp low voltage lighting (switch primary of transformer)

Fluorescent lighting (max 6 fittings recommended)

For fluorescent lighting total power factor correction ca-

pacitance must not exceed 40µF.

3 Amp fans and ventilation equipment

Switch SON lighting loads via a contactor

Minimum load 100mA

SUPPLY VOLTAGE 220-240 Volts AC 50 Hz TIME OUT PERIOD Adjustable 10s to 30m

LIGHT LEVEL Light to dark

TERMINAL CAPACITY 2.5 mm²

Flame retardant ABS MATERIAL

TYPE Class 2

TEMPERATURE -10°C to 35°C

EMC-89/336/EEC (CONFORMITY

IMPORTANT NOTICE!

This device should be installed by a qualified electrician in accordance with the latest edition of the IEE wiring regulations.







Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice.



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